chamber, and an accept outlet for withdrawing accepted fiber suspension from said accept chamber, said stator including at least one barrier member fixedly attached to said stator and extending axially along the length of said stator, said at least one barrier member extending radially from said stator to said rotary screen whereby said accepted fiber suspension is substantially prevented from tangentially passing said at least one barrier member and said at least one barrier member creates a pulse through said rotary screen.

11. (NEW) The apparatus of claim 10 wherein said fiber suspension comprises a pulp suspension.

12. (NEW) The apparatus of claim 10 wherein said at least one barrier member includes a pulse surface facing said rotary screen, said pulse surface having a shape such that the distance between said pulse surface and said rotary screen decreases in the direction of rotation of said rotary screen.

13. (NEW) The apparatus of claim 10 wherein said at least one barrier member extends outwardly from said stator in an axial direction towards said accept outlet and faces in a direction towards the direction of rotation of said rotary screen.

14. (NEW) The apparatus of claim 10 wherein said at least one barrier member extends radially outwardly from said stator at a predetermined angle.

15. (NEW) The apparatus of claim 14 wherein said predetermined angle is perpendicular or comprises an angle facing the direction of rotation of said rotary screen.

16. (NEW) The apparatus of claim 10 wherein said stator, said rotary screen and said housing each has the shape of a cylinder.

17. (NEW) The apparatus of claim 10 wherein said rotary screen has the shape of a cone, with an increase in diameter in the direction facing towards said accept outlet.

18. (NEW) The apparatus of claim 10 wherein said at least one barrier member comprises from 2 to 8 barrier members.